

09/470506

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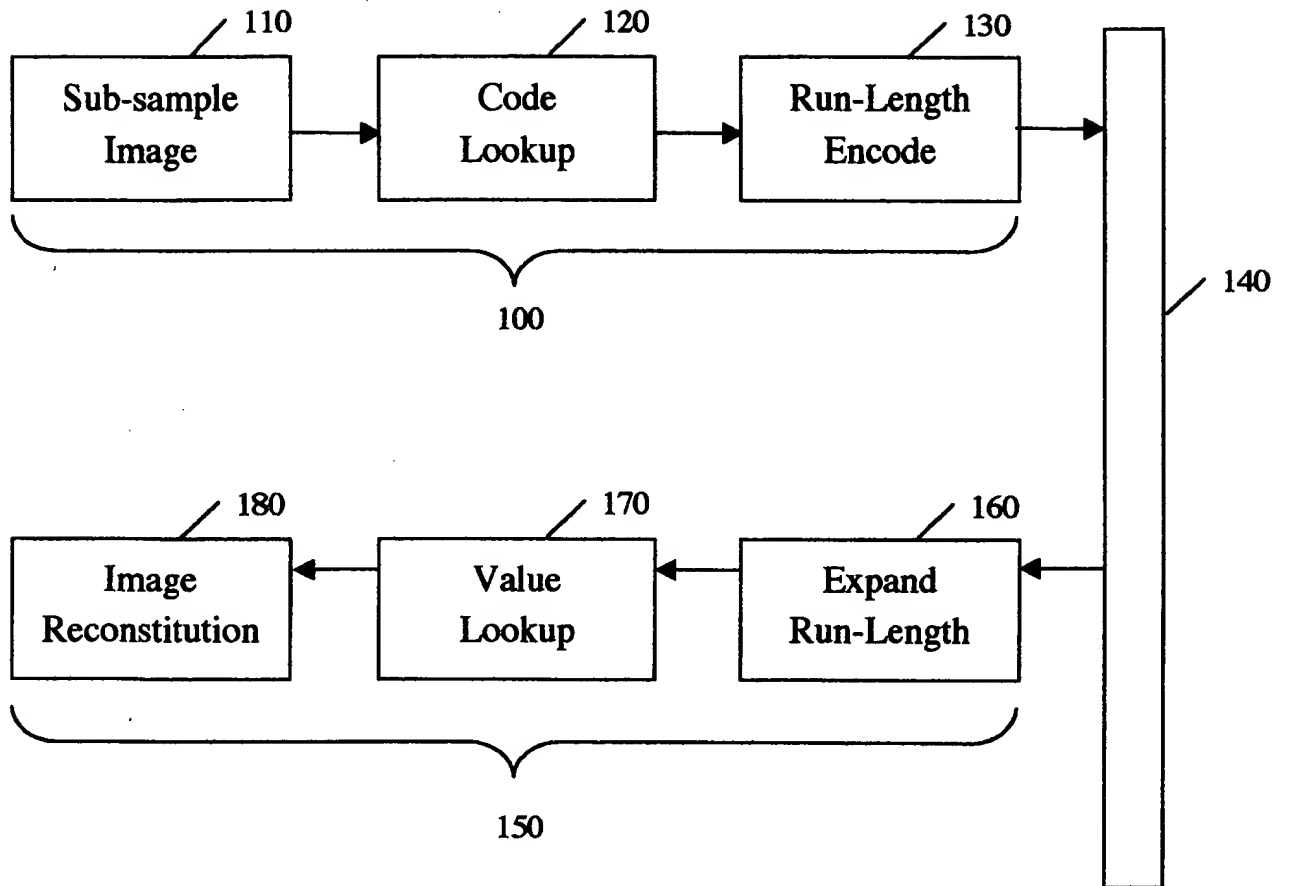


Fig 1

Fig 2A

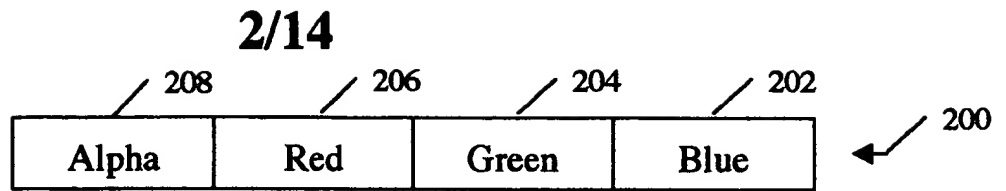


Fig 2B

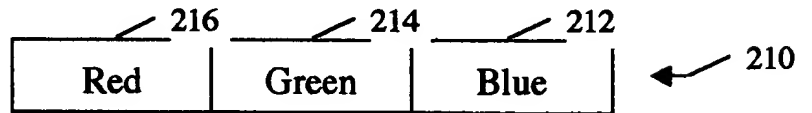


Fig 2C

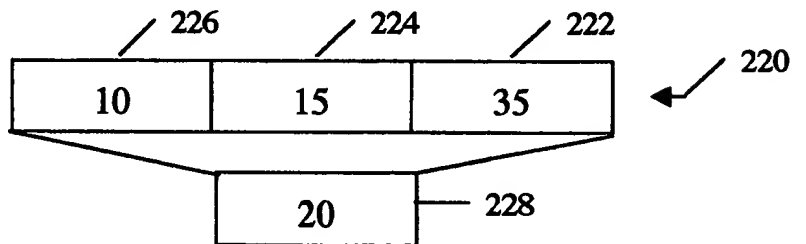


Fig 2D

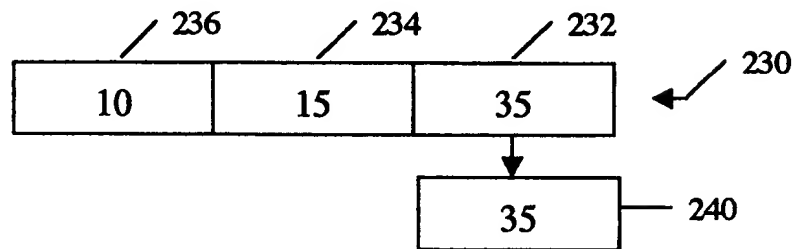


Fig 2E

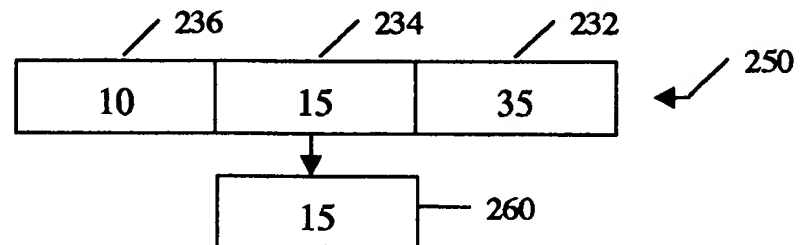


Fig 2F

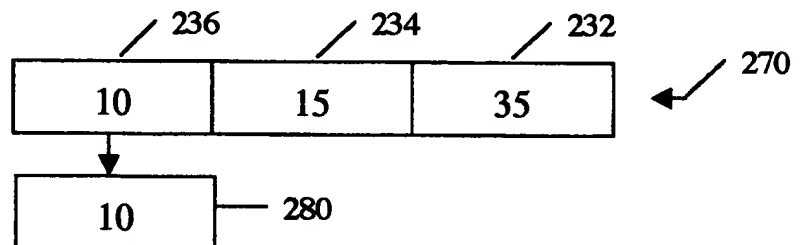


Fig 2G

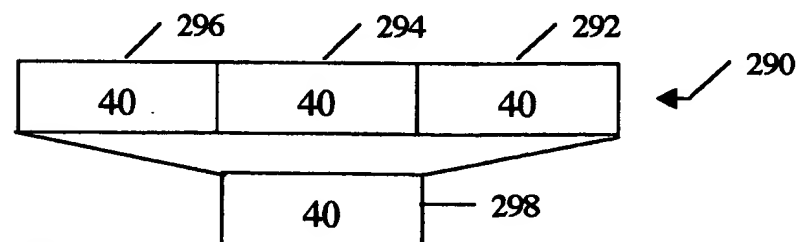


Fig 2H



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```

    unsigned char encodeTable[ ] =
    {
        0, 0, 0, 0, 0,
        1, 1, 1, 1, 1, 1, 1, 1,
        2, 2, 2, 2, 2, 2, 2, 2,
        3, 3, 3, 3, 3, 3, 3, 3, 3,
        4, 4, 4, 4, 4, 4, 4, 4,
        5, 5, 5, 5, 5, 5, 5, 5,
        6, 6, 6, 6, 6, 6, 6, 6,
        7, 7, 7, 7, 7, 7, 7, 7, 7,
        8, 8, 8, 8, 8, 8, 8, 8,
        9, 9, 9, 9, 9, 9, 9, 9,
        10, 10, 10, 10, 10, 10, 10, 10,
        11, 11, 11, 11, 11, 11, 11, 11, 11,
        12, 12, 12, 12, 12, 12, 12, 12,
        13, 13, 13, 13, 13, 13, 13, 13,
        14, 14, 14, 14, 14, 14, 14, 14,
        15, 15, 15, 15, 15, 15, 15, 15, 15,
        16, 16, 16, 16, 16, 16, 16, 16,
        17, 17, 17, 17, 17, 17, 17, 17,
        18, 18, 18, 18, 18, 18, 18, 18,
        19, 19, 19, 19, 19, 19, 19, 19, 19,
        20, 20, 20, 20, 20, 20, 20, 20,
        21, 21, 21, 21, 21, 21, 21, 21,
        22, 22, 22, 22, 22, 22, 22, 22,
        23, 23, 23, 23, 23, 23, 23, 23, 23,
        24, 24, 24, 24, 24, 24, 24, 24,
        25, 25, 25, 25, 25, 25, 25, 25,
        26, 26, 26, 26, 26, 26, 26, 26,
        27, 27, 27, 27, 27, 27, 27, 27, 27,
        28, 28, 28, 28, 28, 28, 28, 28,
        29, 29, 29, 29, 29, 29, 29, 29,
        30, 30, 30, 30, 30, 30, 30, 30,
        31, 31, 31, 31
    };

```

370

330 340 360

```

// 0 - 4 -> 0
// 5 - 12 -> 8
// 13 - 20 -> 16
// 21 - 29 -> 24
// 30 - 37 -> 33
// 38 - 45 -> 41
// 46 - 53 -> 49
// 54 - 62 -> 57
// 63 - 70 -> 66
// 71 - 78 -> 74
// 79 - 86 -> 82
// 87 - 95 -> 90
// 96 - 103 -> 99
// 104 - 111 -> 107
// 112 - 119 -> 115
// 120 - 128 -> 123
// 129 - 136 -> 132
// 137 - 144 -> 140
// 145 - 152 -> 148
// 153 - 161 -> 156
// 162 - 169 -> 165
// 170 - 177 -> 173
// 178 - 185 -> 181
// 186 - 194 -> 189
// 195 - 202 -> 198
// 203 - 210 -> 206
// 211 - 218 -> 214
// 219 - 227 -> 222
// 228 - 235 -> 231
// 236 - 243 -> 239
// 244 - 251 -> 247
// 252 - 255 -> 255

```

310 320

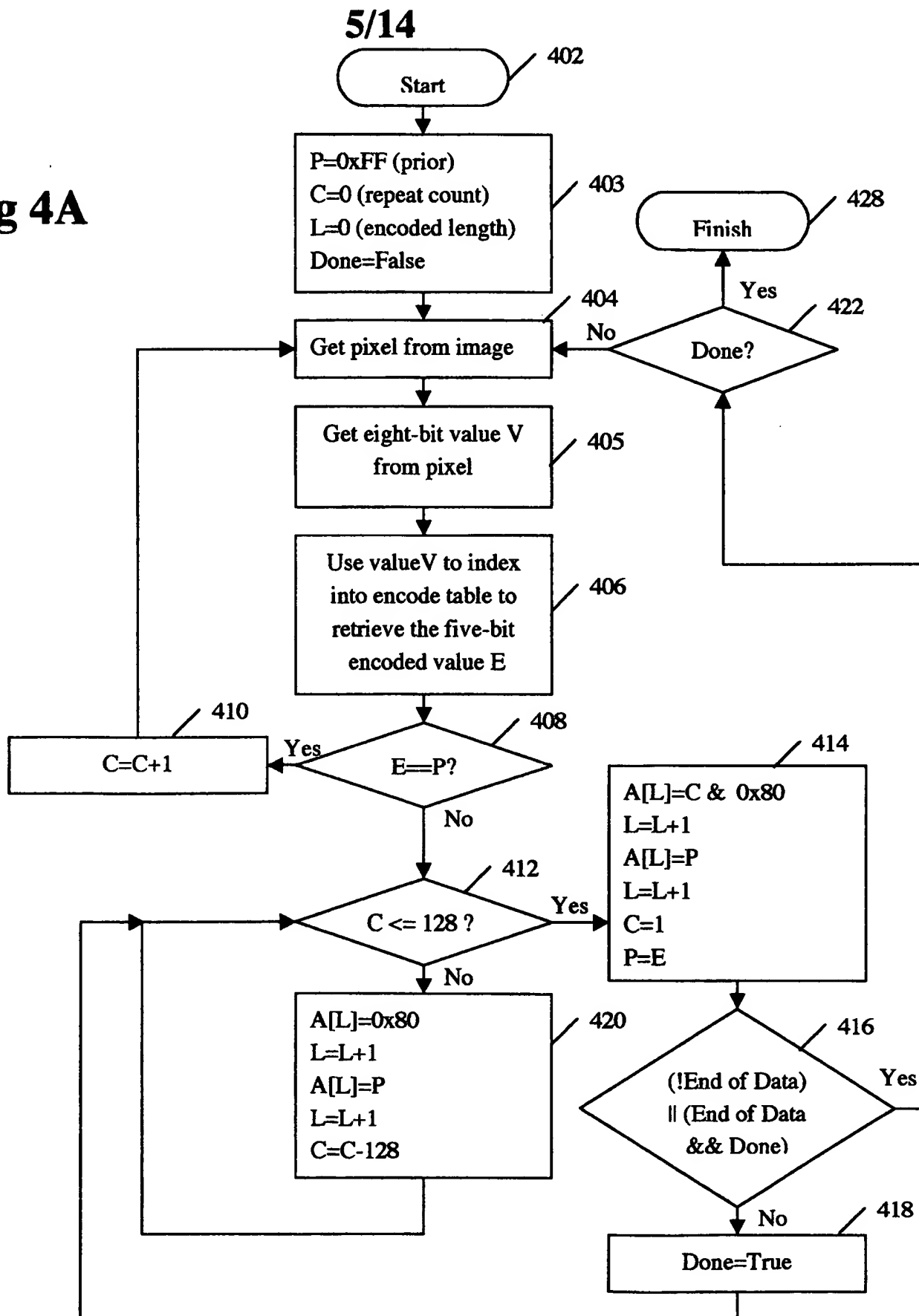
Fig 3A

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| 370 ↓ | 330 ↓ | | | 350 ↓ | | | | | | 360 ↓ |
|----------|----------|-----|-----|----------|-----|-----|-----|-----|-----|----------|
| 0 | 0 | 1 | 2 | 3 | 4 | | | | | 0 |
| 1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 8 |
| 2 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | 16 |
| 3 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 24 |
| 4 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | | 33 |
| 5 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | | 41 |
| 6 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | | 49 |
| 7 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 57 |
| 8 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | | 66 |
| 9 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | | 74 |
| 10 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | | 82 |
| 11 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 90 |
| 12 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | | 99 |
| 13 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | | 107 |
| 14 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | | 115 |
| 15 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 123 |
| 16 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | | 132 |
| 17 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | | 140 |
| 18 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | | 148 |
| 19 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 156 |
| 20 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | | 165 |
| 21 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | | 173 |
| 22 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | | 181 |
| 23 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 189 |
| 24 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | | 198 |
| 25 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | | 206 |
| 26 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | | 214 |
| 27 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 222 |
| 28 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | | 231 |
| 29 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | | 239 |
| 30 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | | 247 |
| 31 | 252 | 253 | 254 | 255 | | | | | | 255 |

Fig 3B

Fig 4A



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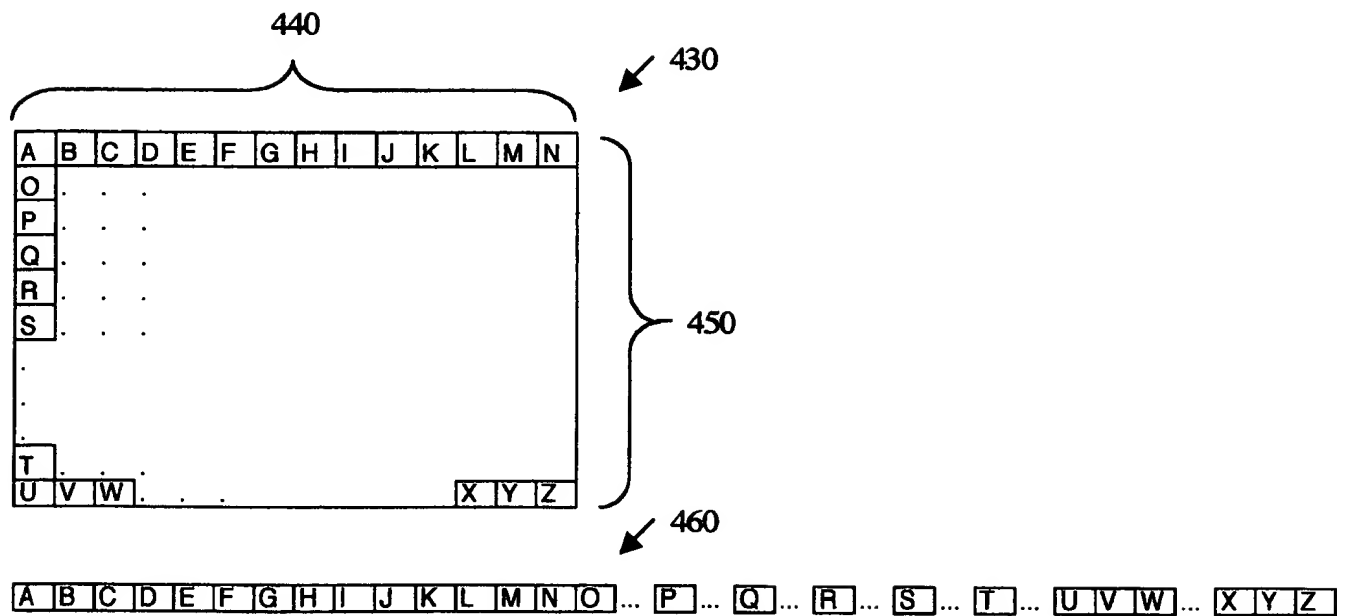


Fig 4B

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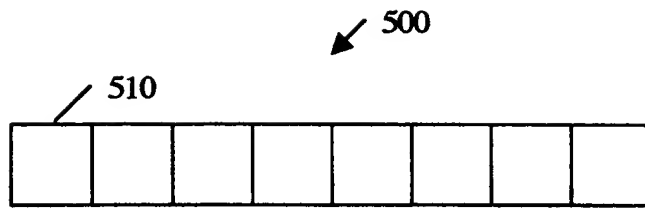


Fig 5A

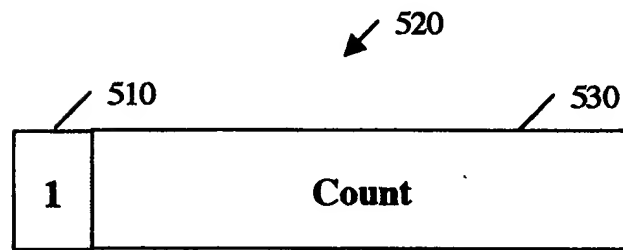


Fig 5B

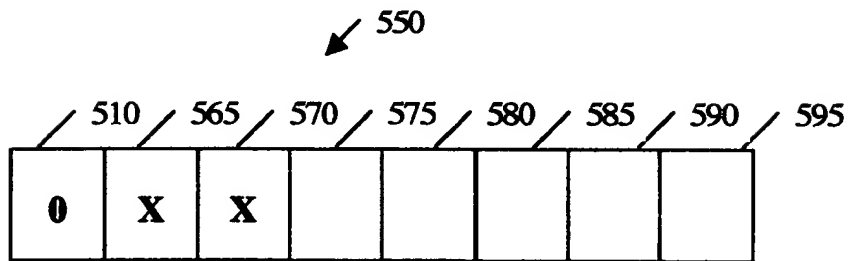


Fig 5C

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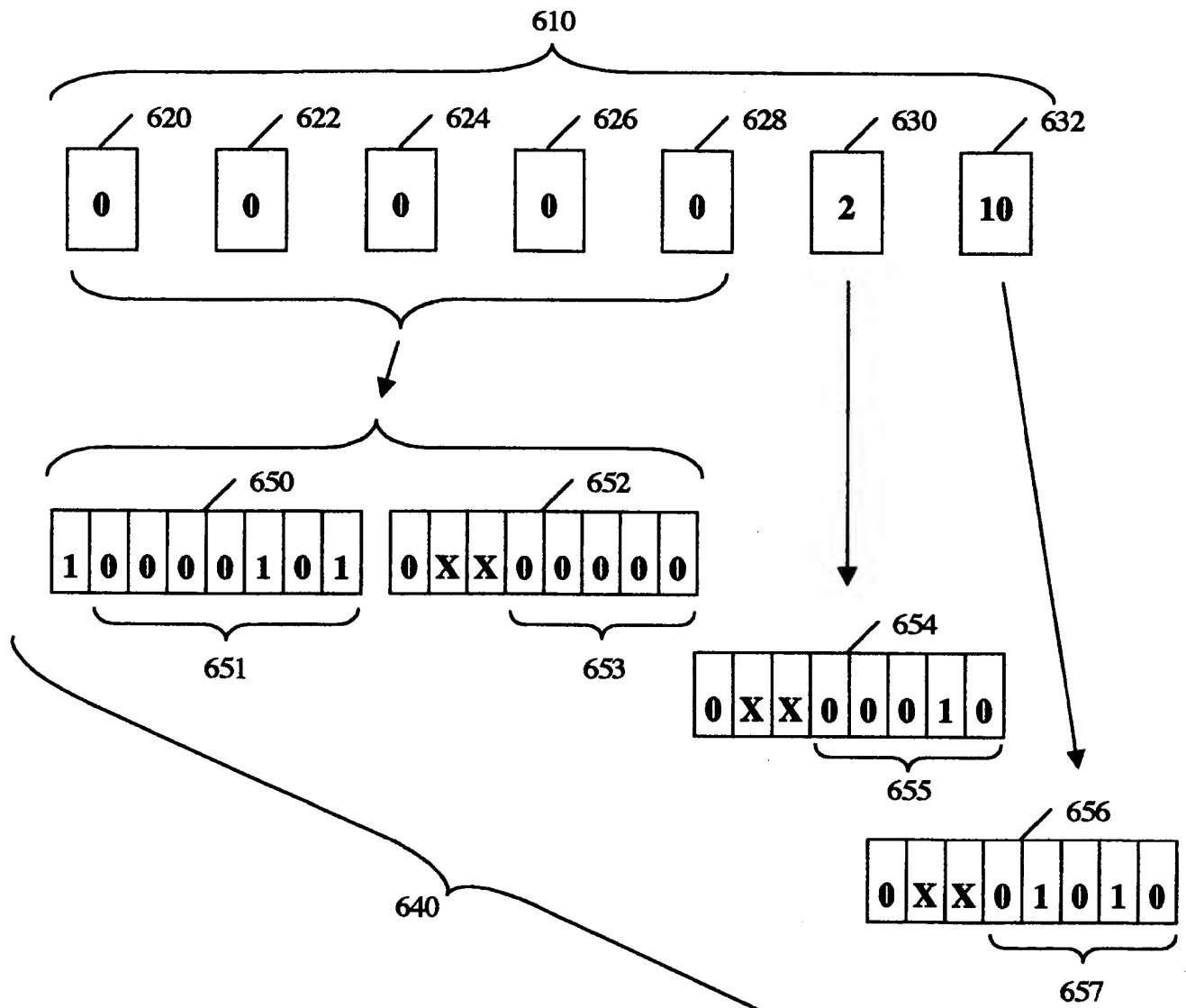


Fig 6

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```

int decodeTable[ ] =
{
    0xff << 24 | 0 << 16 | 0 << 8 | 0,
    0xff << 24 | 8 << 16 | 8 << 8 | 8,
    0xff << 24 | 16 << 16 | 16 << 8 | 16,
    0xff << 24 | 24 << 16 | 24 << 8 | 24,
    0xff << 24 | 33 << 16 | 33 << 8 | 33,
    0xff << 24 | 41 << 16 | 41 << 8 | 41,
    0xff << 24 | 49 << 16 | 49 << 8 | 49,
    0xff << 24 | 57 << 16 | 57 << 8 | 57,
    0xff << 24 | 66 << 16 | 66 << 8 | 66,
    0xff << 24 | 74 << 16 | 74 << 8 | 74,
    0xff << 24 | 82 << 16 | 82 << 8 | 82,
    0xff << 24 | 90 << 16 | 90 << 8 | 90,
    0xff << 24 | 99 << 16 | 99 << 8 | 99,
    0xff << 24 | 107 << 16 | 107 << 8 | 107,
    0xff << 24 | 115 << 16 | 115 << 8 | 115,
    0xff << 24 | 123 << 16 | 123 << 8 | 123,
    0xff << 24 | 132 << 16 | 132 << 8 | 132,
    0xff << 24 | 140 << 16 | 140 << 8 | 140,
    0xff << 24 | 148 << 16 | 148 << 8 | 148,
    0xff << 24 | 156 << 16 | 156 << 8 | 156,
    0xff << 24 | 165 << 16 | 165 << 8 | 165,
    0xff << 24 | 173 << 16 | 173 << 8 | 173,
    0xff << 24 | 181 << 16 | 181 << 8 | 181,
    0xff << 24 | 189 << 16 | 189 << 8 | 189,
    0xff << 24 | 198 << 16 | 198 << 8 | 198,
    0xff << 24 | 206 << 16 | 206 << 8 | 206,
    0xff << 24 | 214 << 16 | 214 << 8 | 214,
    0xff << 24 | 222 << 16 | 222 << 8 | 222,
    0xff << 24 | 231 << 16 | 231 << 8 | 231,
    0xff << 24 | 239 << 16 | 239 << 8 | 239,
    0xff << 24 | 247 << 16 | 247 << 8 | 247,
    0xff << 24 | 255 << 16 | 255 << 8 | 255
};

```

Fig 7

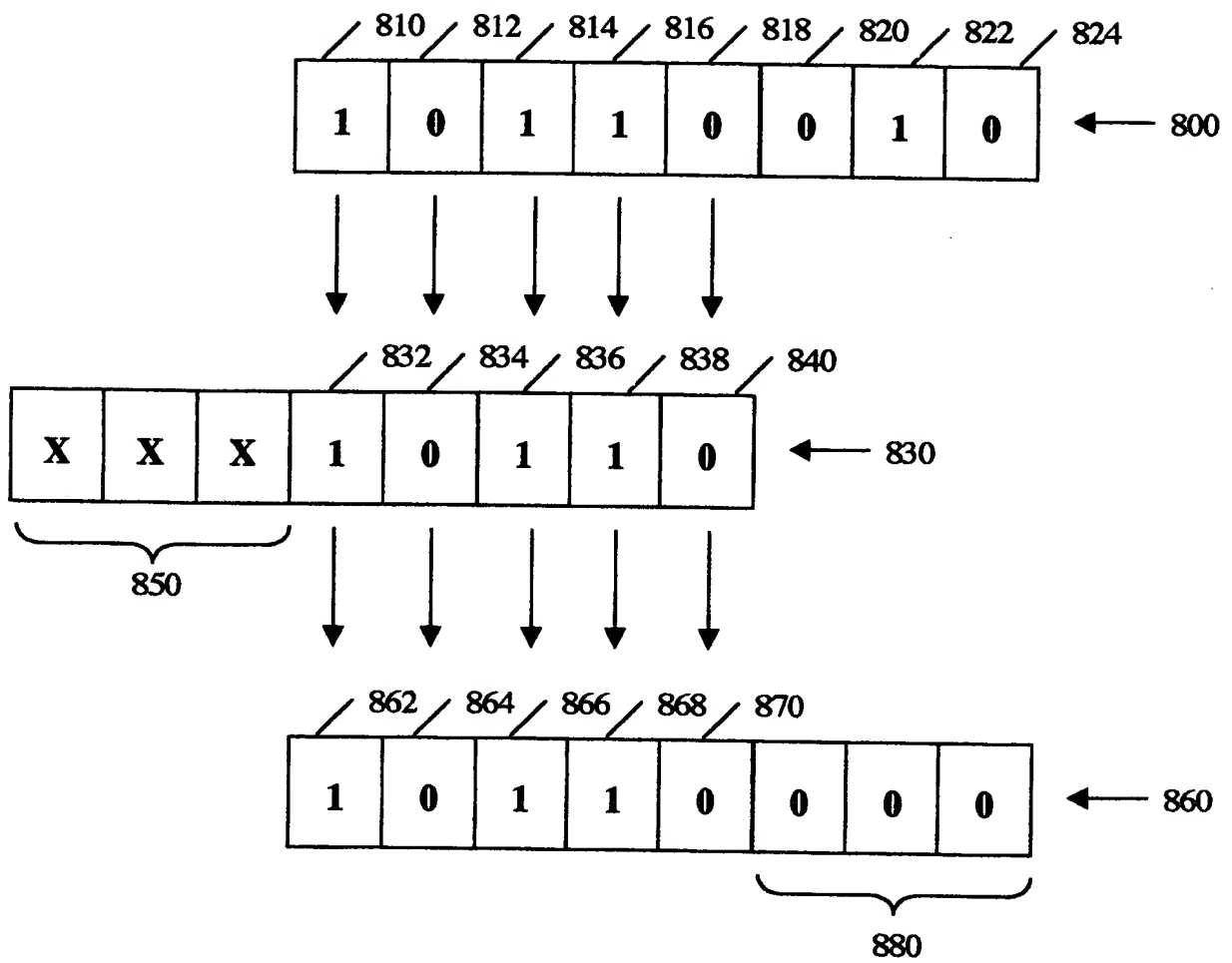
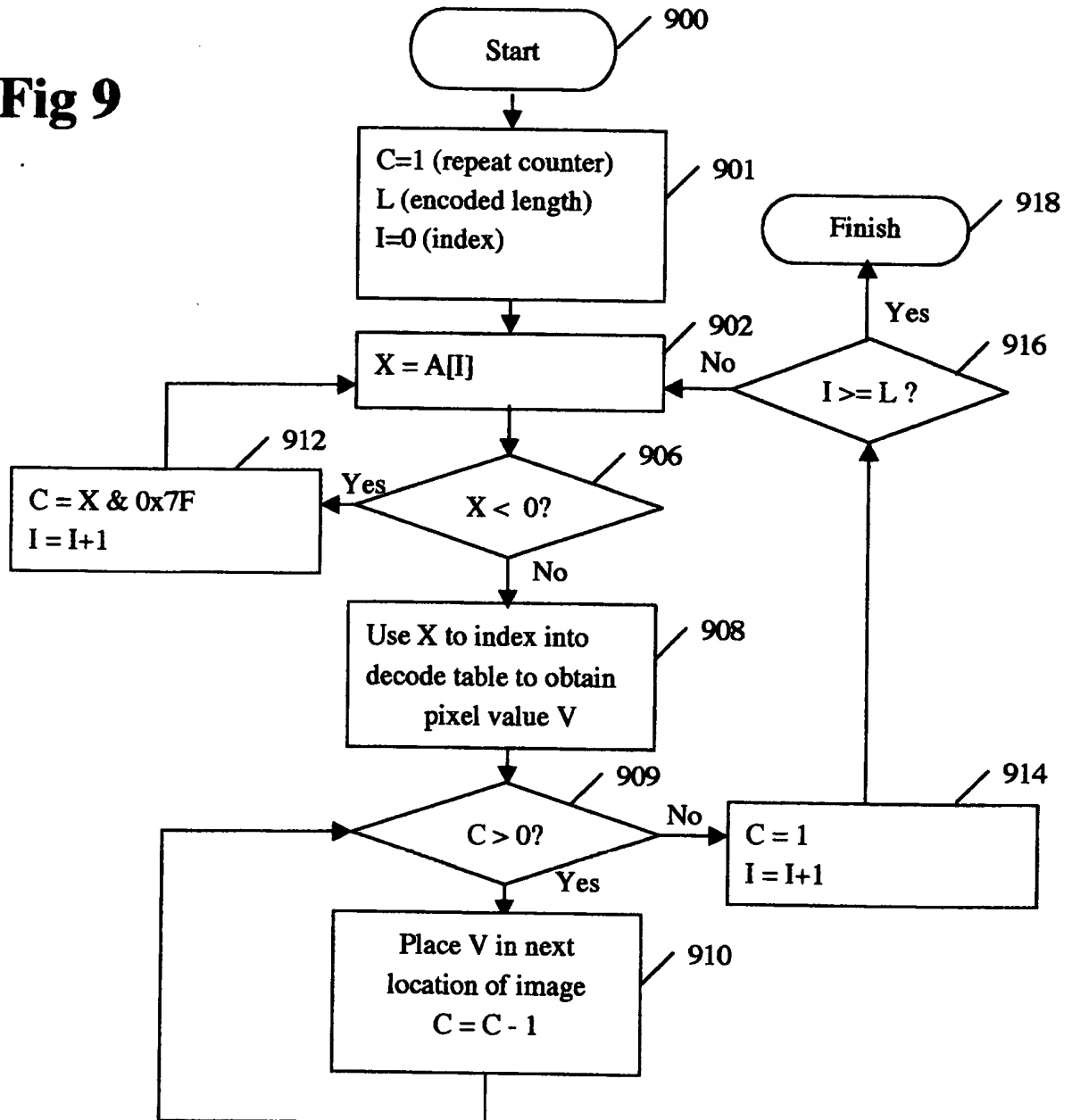


Fig 8

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Fig 9



1000

| | |
|----|----|
| 0 | 24 |
| 1 | 18 |
| 2 | 25 |
| 3 | 5 |
| 4 | 3 |
| 5 | 6 |
| 6 | 12 |
| 7 | 30 |
| 8 | 21 |
| 9 | 27 |
| 10 | 1 |
| 11 | 16 |
| 12 | 31 |
| 13 | 4 |
| 14 | 14 |
| 15 | 20 |
| 16 | 10 |
| 17 | 28 |
| 18 | 23 |
| 19 | 9 |
| 20 | 15 |
| 21 | 22 |
| 22 | 29 |
| 23 | 13 |
| 24 | 19 |
| 25 | 26 |
| 26 | 2 |
| 27 | 17 |
| 28 | 0 |
| 29 | 8 |
| 30 | 11 |
| 31 | 7 |

Fig 10A

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↙ 1010

```
unsigned char encodeTable[ ] =
{
```

| | |
|-------------------------------------|---------------------|
| 24, 24, 24, 24, 24, | // 0 - 4 -> 0 |
| 18, 18, 18, 18, 18, 18, 18, 18, | // 5 - 12 -> 8 |
| 25, 25, 25, 25, 25, 25, 25, 25, | // 13 - 20 -> 16 |
| 5, 5, 5, 5, 5, 5, 5, 5, 5, | // 21 - 29 -> 24 |
| 3, 3, 3, 3, 3, 3, 3, 3, 3, | // 30 - 37 -> 33 |
| 6, 6, 6, 6, 6, 6, 6, 6, 6, | // 38 - 45 -> 41 |
| 12, 12, 12, 12, 12, 12, 12, 12, | // 46 - 53 -> 49 |
| 30, 30, 30, 30, 30, 30, 30, 30, 30, | // 54 - 62 -> 57 |
| 21, 21, 21, 21, 21, 21, 21, 21, | // 63 - 70 -> 66 |
| 27, 27, 27, 27, 27, 27, 27, 27, | // 71 - 78 -> 74 |
| 1, 1, 1, 1, 1, 1, 1, 1, | // 79 - 86 -> 82 |
| 16, 16, 16, 16, 16, 16, 16, 16, 16, | // 87 - 95 -> 90 |
| 31, 31, 31, 31, 31, 31, 31, 31, | // 96 - 103 -> 99 |
| 4, 4, 4, 4, 4, 4, 4, 4, | // 104 - 111 -> 107 |
| 14, 14, 14, 14, 14, 14, 14, 14, | // 112 - 119 -> 115 |
| 20, 20, 20, 20, 20, 20, 20, 20, 20, | // 120 - 128 -> 123 |
| 10, 10, 10, 10, 10, 10, 10, 10, | // 129 - 136 -> 132 |
| 28, 28, 28, 28, 28, 28, 28, 28, | // 137 - 144 -> 140 |
| 23, 23, 23, 23, 23, 23, 23, 23, | // 145 - 152 -> 148 |
| 9, 9, 9, 9, 9, 9, 9, 9, 9, | // 153 - 161 -> 156 |
| 15, 15, 15, 15, 15, 15, 15, 15, | // 162 - 169 -> 165 |
| 22, 22, 22, 22, 22, 22, 22, 22, | // 170 - 177 -> 173 |
| 29, 29, 29, 29, 29, 29, 29, 29, | // 178 - 185 -> 181 |
| 13, 13, 13, 13, 13, 13, 13, 13, 13, | // 186 - 194 -> 189 |
| 19, 19, 19, 19, 19, 19, 19, 19, | // 195 - 202 -> 198 |
| 26, 26, 26, 26, 26, 26, 26, 26, | // 203 - 210 -> 206 |
| 2, 2, 2, 2, 2, 2, 2, 2, | // 211 - 218 -> 214 |
| 17, 17, 17, 17, 17, 17, 17, 17, 17, | // 219 - 227 -> 222 |
| 0, 0, 0, 0, 0, 0, 0, 0, | // 228 - 235 -> 231 |
| 8, 8, 8, 8, 8, 8, 8, 8, | // 236 - 243 -> 239 |
| 11, 11, 11, 11, 11, 11, 11, 11, | // 244 - 251 -> 247 |
| 7, 7, 7, 7 | // 252 - 255 -> 255 |

```
};
```

Fig 10B

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↙ 1020

```
int decodeTable[ ] =
{
    0xff << 24 | 231 << 16 | 231 << 8 | 231,
    0xff << 24 | 82 << 16 | 82 << 8 | 82,
    0xff << 24 | 214 << 16 | 214 << 8 | 214,
    0xff << 24 | 33 << 16 | 33 << 8 | 33,
    0xff << 24 | 107 << 16 | 107 << 8 | 107,
    0xff << 24 | 24 << 16 | 24 << 8 | 24,
    0xff << 24 | 41 << 16 | 41 << 8 | 41,
    0xff << 24 | 255 << 16 | 255 << 8 | 255,
    0xff << 24 | 239 << 16 | 239 << 8 | 239,
    0xff << 24 | 156 << 16 | 156 << 8 | 156,
    0xff << 24 | 132 << 16 | 132 << 8 | 132,
    0xff << 24 | 247 << 16 | 247 << 8 | 247,
    0xff << 24 | 49 << 16 | 49 << 8 | 49,
    0xff << 24 | 189 << 16 | 189 << 8 | 189,
    0xff << 24 | 115 << 16 | 115 << 8 | 115,
    0xff << 24 | 165 << 16 | 165 << 8 | 165,
    0xff << 24 | 90 << 16 | 90 << 8 | 90,
    0xff << 24 | 222 << 16 | 222 << 8 | 222,
    0xff << 24 | 8 << 16 | 8 << 8 | 8,
    0xff << 24 | 198 << 16 | 198 << 8 | 198,
    0xff << 24 | 123 << 16 | 123 << 8 | 123,
    0xff << 24 | 66 << 16 | 66 << 8 | 66,
    0xff << 24 | 173 << 16 | 173 << 8 | 173,
    0xff << 24 | 148 << 16 | 148 << 8 | 148,
    0xff << 24 | 0 << 16 | 0 << 8 | 0,
    0xff << 24 | 16 << 16 | 16 << 8 | 16,
    0xff << 24 | 206 << 16 | 206 << 8 | 206,
    0xff << 24 | 74 << 16 | 74 << 8 | 74,
    0xff << 24 | 140 << 16 | 140 << 8 | 140,
    0xff << 24 | 181 << 16 | 181 << 8 | 181,
    0xff << 24 | 57 << 16 | 57 << 8 | 57,
    0xff << 24 | 99 << 16 | 99 << 8 | 99
};
```

Fig 10C